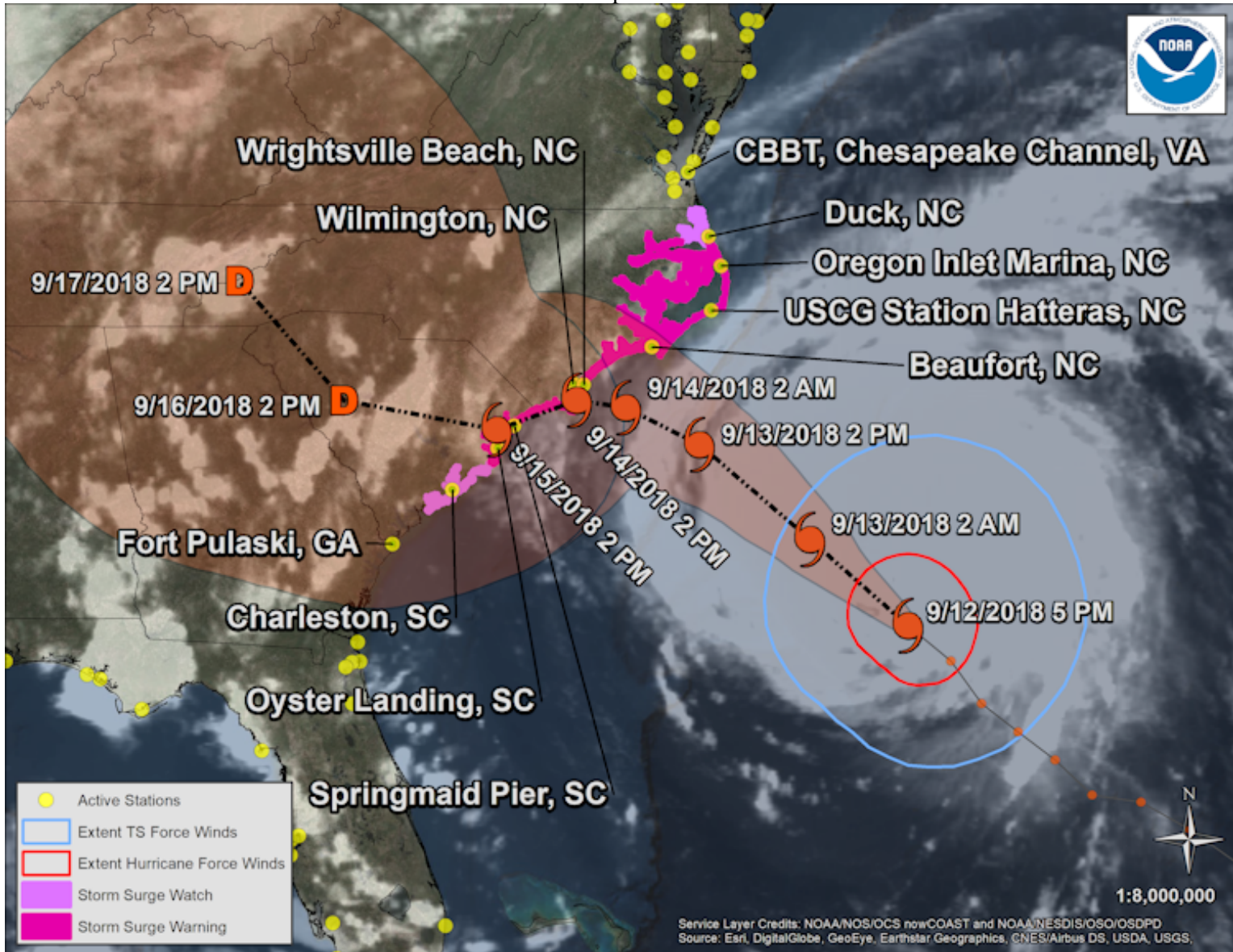




Hurricane Florence QuickLook  
Posted: 18:00 EDT 09/12/2018

#### NOAA and NOAA Partnership Stations Relative to the Storm



#### Storm Analysis

As of 09/12/2018 18:00 EDT, water levels from Fort Pulaski, GA to the mouth of the Chesapeake Bay continue to be slightly elevated around 1.0 foot or less above normal tide levels.

Winds are increasing and range from 10 to 15 knots around the South East into the Mid-Atlantic. Barometric pressure is holding steady across the region.

Water Level and Meteorological plots available below are updated automatically. A line denoting Mean Higher High Water (MHHW) is displayed to provide an approximate indication of when flooding inundation may occur.

For additional real-time and historical inundation information for select stations affected by this storm, please visit Coastal Inundation Dashboard. For additional data, please see the Center for Operational Oceanographic Products & Services website.

For more information or archived products and reports, please visit the Storm QuickLook Homepage.

Analyst: RCL

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Select National Hurricane Center Advisory

Hurricane Florence Advisory Number 54  
NWS National Hurricane Center Miami FL  
500 PM EDT Wed Sep 12 2018

...FLORENCE MOVING STEADILY TOWARD THE CAROLINA COASTAL AREAS...  
...LIFE-THREATENING STORM SURGE AND RAINFALL EXPECTED...

SUMMARY OF 500 PM EDT...2100 UTC...INFORMATION

-----  
LOCATION...30.9N 72.5W  
ABOUT 385 MI...615 KM SE OF WILMINGTON NORTH CAROLINA  
ABOUT 420 MI...675 KM ESE OF MYRTLE BEACH SOUTH CAROLINA  
MAXIMUM SUSTAINED WINDS...120 MPH...195 KM/H  
PRESENT MOVEMENT...NW OR 315 DEGREES AT 16 MPH...26 KM/H  
MINIMUM CENTRAL PRESSURE...949 MB...28.03 INCHES

WATCHES AND WARNINGS

-----  
CHANGES WITH THIS ADVISORY:

None.

SUMMARY OF WATCHES AND WARNINGS IN EFFECT:

A Storm Surge Warning is in effect for...

- \* South Santee River South Carolina to Duck North Carolina
- \* Albemarle and Pamlico Sounds, including the Neuse and Pamlico Rivers

A Storm Surge Watch is in effect for...

- \* Edisto Beach South Carolina to South Santee River South Carolina
- \* North of Duck North Carolina to the North Carolina/Virginia border

A Hurricane Warning is in effect for...

- \* South Santee River South Carolina to Duck North Carolina
- \* Albemarle and Pamlico Sounds

A Hurricane Watch is in effect for...

- \* Edisto Beach South Carolina to South Santee River South Carolina

A Tropical Storm Warning is in effect for...

- \* North of Duck North Carolina to the North Carolina/Virginia border

A Tropical Storm Watch is in effect for...

- \* North of the North Carolina/Virginia border to Cape Charles Light Virginia
- \* Chesapeake Bay south of New Point Comfort

Interests elsewhere in the southeastern and mid-Atlantic states should monitor the progress of Florence.

A Storm Surge Warning means there is a danger of life-threatening inundation, from rising water moving inland from the coastline, during the next 36 hours in the indicated locations. For a depiction of areas at risk, please see the National Weather Service Storm Surge Watch/Warning Graphic, available at [hurricanes.gov](http://hurricanes.gov). This is a life-threatening situation. Persons located within these areas should take all necessary actions to protect life and property from rising water and the potential for other dangerous conditions. Promptly follow evacuation and other instructions from local officials.

A Storm Surge Watch means there is a possibility of life-threatening inundation, from rising water moving inland from the coastline, in the indicated locations during the next 48 hours.

A Hurricane Warning means that hurricane conditions are expected somewhere within the warning area. A warning is typically issued 36 hours before the anticipated first occurrence of tropical-storm-force winds, conditions that make outside preparations difficult or dangerous. Preparations to protect life and property should be rushed to completion.

A Hurricane Watch means that hurricane conditions are possible within the watch area. A watch is typically issued 48 hours before the anticipated first occurrence of tropical-storm-force winds, conditions that make outside preparations difficult or dangerous.

A Tropical Storm Warning means that tropical storm conditions are expected somewhere within the warning area within 36 hours.

A Tropical Storm Watch means that tropical storm conditions are possible within the watch area, generally within 48 hours.

For storm information specific to your area, including possible inland watches and warnings, please monitor products issued by your local National Weather Service forecast office.

## DISCUSSION AND OUTLOOK

At 500 PM EDT (2100 UTC), the center of Hurricane Florence was located near latitude 30.9 North, longitude 72.5 West. Florence is moving toward the northwest near 16 mph (26 km/h), and this general motion, accompanied by a gradual decrease in forward speed, is expected to continue through Saturday. On the forecast track, the center of Florence will move over the southwestern Atlantic Ocean between Bermuda and the Bahamas tonight, and approach the coast of North Carolina or South Carolina in the hurricane warning area on Thursday and Friday, and move slowly near the coastline through Saturday.

Maximum sustained winds have decreased to near 120 mph (195 km/h) with higher gusts. Florence is a category 3 hurricane on the Saffir-Simpson Hurricane Wind Scale. Some fluctuations in strength will be possible through Thursday morning. Although slow weakening is expected to begin by late Thursday, Florence is forecast to be an extremely dangerous major hurricane when it nears the U.S. coast late Thursday and Friday.

Hurricane-force winds extend outward up to 70 miles (110 km) from the center and tropical-storm-force winds now extend outward up to 195 miles (315 km).

The estimated minimum central pressure is 949 mb (28.03 inches).

## HAZARDS AFFECTING LAND

**STORM SURGE:** The combination of a dangerous storm surge and the tide will cause normally dry areas near the coast to be flooded by rising waters moving inland from the shoreline. The water has the potential to reach the following heights above ground if peak surge occurs at the time of high tide...

Cape Fear NC to Cape Lookout NC, including the Neuse, Pamlico, Pungo, and Bay Rivers...9-13 ft

North Myrtle Beach SC to Cape Fear NC...6-9 ft

Cape Lookout NC to Ocracoke Inlet NC...6-9 ft

South Santee River SC to North Myrtle Beach SC...4-6 ft

Ocracoke Inlet NC to Salvo NC...4-6 ft

Salvo NC to North Carolina/Virginia Border...2-4 ft

Edisto Beach SC to South Santee River SC...2-4 ft

The deepest water will occur along the immediate coast in areas of onshore winds, where the surge will be accompanied by large and destructive waves. Surge-related flooding depends on the relative timing of the surge and the tidal cycle, and can vary greatly over short distances. For information specific to your area, please see products issued by your local National Weather Service forecast office.

RAINFALL: Florence is expected to produce heavy and excessive rainfall in the following areas...

Coastal North Carolina...20 to 30 inches, isolated 40 inches. This rainfall would produce catastrophic flash flooding and significant river flooding.

South Carolina, western and northern North Carolina...5 to 10 inches, isolated 20 inches.

Elsewhere in the Appalachians and Mid-Atlantic states...3 to 6 inches, isolated 12 inches.

WIND: Hurricane conditions are expected to reach the coast within the hurricane warning area late Thursday or Friday. Winds are expected to first reach tropical storm strength on Thursday, making outside preparations difficult or dangerous. Preparations to protect life and property should be rushed to completion.

TORNADOES: A few tornadoes are possible in eastern North Carolina beginning late Thursday morning.

SURF: Swells generated by Florence are affecting Bermuda, portions of the U.S. East Coast, and the northwestern and central Bahamas. These swells are likely to cause life-threatening surf and rip current conditions. Please consult products from your local weather office.

#### NEXT ADVISORY

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Next intermediate advisory at 800 PM EDT.

Next complete advisory at 1100 PM EDT.

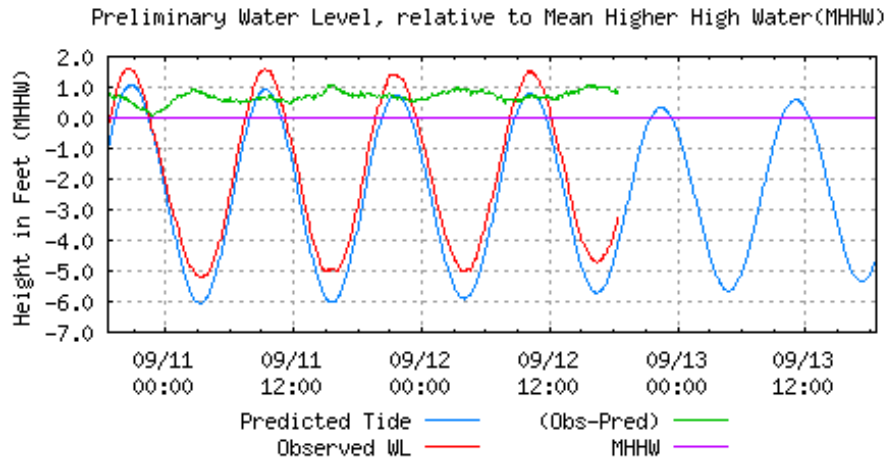
Forecaster Stewart

For the purpose of timely release, data contained within this QuickLook have undergone a "limited" NOS Quality Assurance/Control; however, the data have not yet undergone final verification. All data subject to NOS verification.

Jump to: [Springmaid Pier - Water Level](#), [Springmaid Pier - Barometric](#), [Wrightsville Beach - Water Level](#), [Wrightsville Beach - Winds](#), [Wrightsville Beach - Barometric](#), [Wilmington - Water Level](#), [Wilmington - Barometric](#), [Beaufort, Duke Marine Lab - Water Level](#), [Beaufort, Duke Marine Lab - Winds](#), [Beaufort, Duke Marine Lab -](#)

Barometric, USCG Station Hatteras - Water Level, USCG Station Hatteras - Winds, USCG Station Hatteras - Barometric, Oregon Inlet Marina - Water Level, Oregon Inlet Marina - Winds, Oregon Inlet Marina - Barometric, Duck - Water Level, Duck - Winds, Duck - Barometric, CBBT, Chesapeake Channel - Water Level, CBBT, Chesapeake Channel - Winds, CBBT, Chesapeake Channel - Barometric, Oyster Landing (N Inlet Estuary) - Water Level, Charleston, Cooper River Entrance - Water Level, Charleston, Cooper River Entrance - Winds, Charleston, Cooper River Entrance - Barometric, Fort Pulaski - Water Level, Fort Pulaski - Winds, Fort Pulaski - Barometric

NOAA/NOS/CO-OPS 8661070 Springmaid Pier, SC



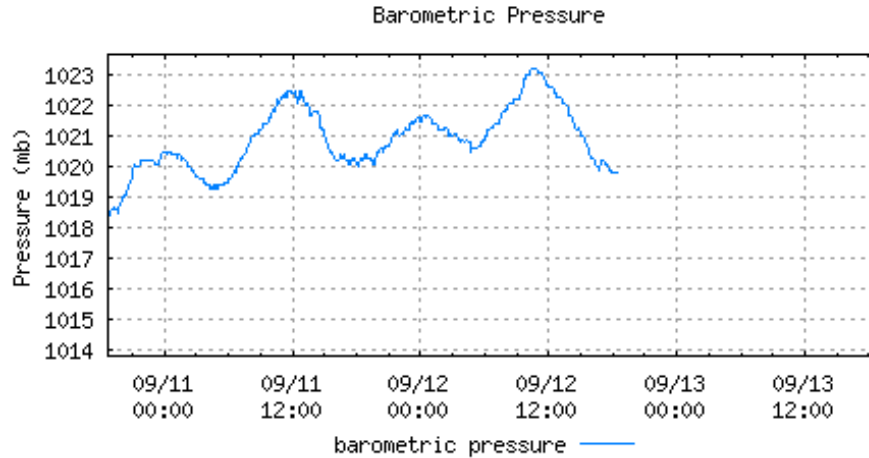
Last Observed Sample: 09/12/2018 18:30 (EDT). Data relative to MHHW

Observed: -3.09 ft. Predicted: -4.02 ft. Residual: 0.93 ft.

Historical Maximum Water Level: Sep 21 1989, 8.77 ft.

Next High Tide: 09/12/2018 22:26 (EDT), 0.34 ft.

NOAA/NOS/CO-OPS 8661070 Springmaid Pier, SC

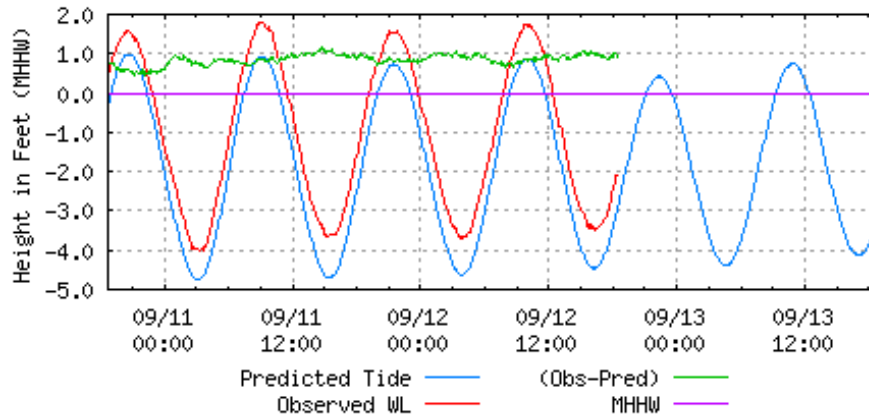


Last Observed Sample: 09/12/2018 18:30 (EDT)

Barometric Pressure: 1019.7 mb

NOAA/NOS/CO-OPS 8658163 Wrightsville Beach, NC

Preliminary Water Level, relative to Mean Higher High Water(MHHW)



Last Observed Sample: 09/12/2018 18:30 (EDT). Data relative to MHHW

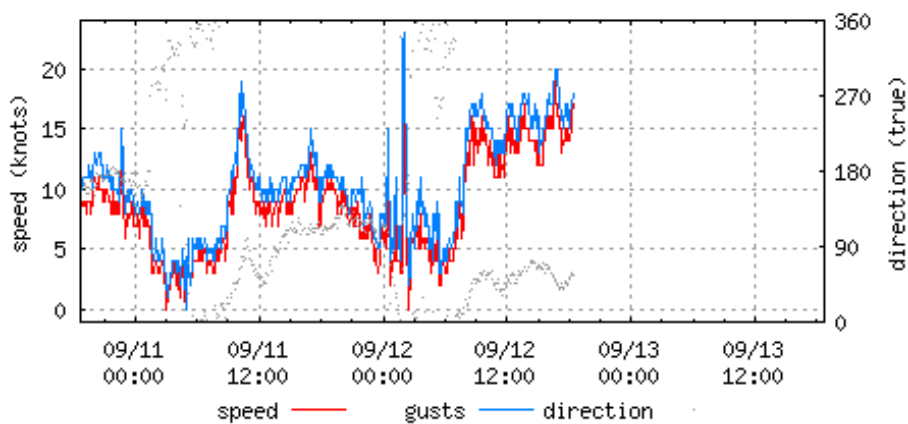
Observed: -1.99 ft. Predicted: -2.90 ft. Residual: 0.91 ft.

Historical Maximum Water Level: Oct 4 2015, 2.97 ft.

Next High Tide: 09/12/2018 22:21 (EDT), 0.43 ft.

NOAA/NOS/CO-OPS 8658163 Wrightsville Beach, NC

Wind Speed / Gusts / Direction

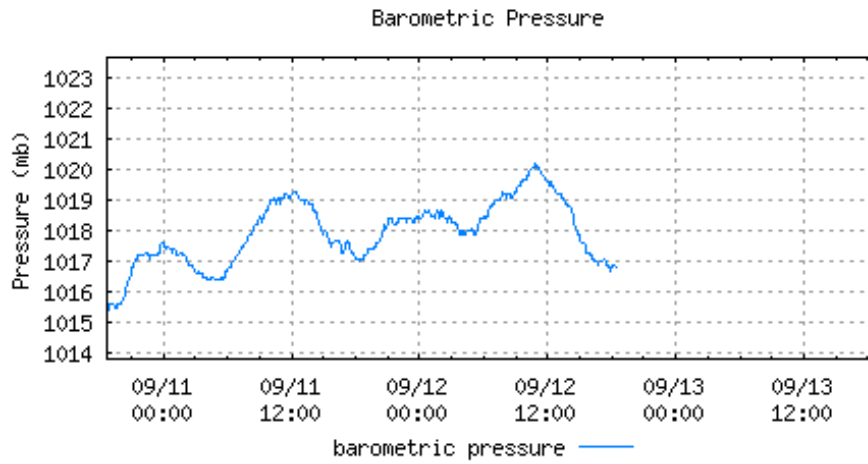


Last Observed Sample: 09/12/2018 18:30 (EDT)

Wind Speed: 16 knots Gusts: 18 knots Direction: 55° T



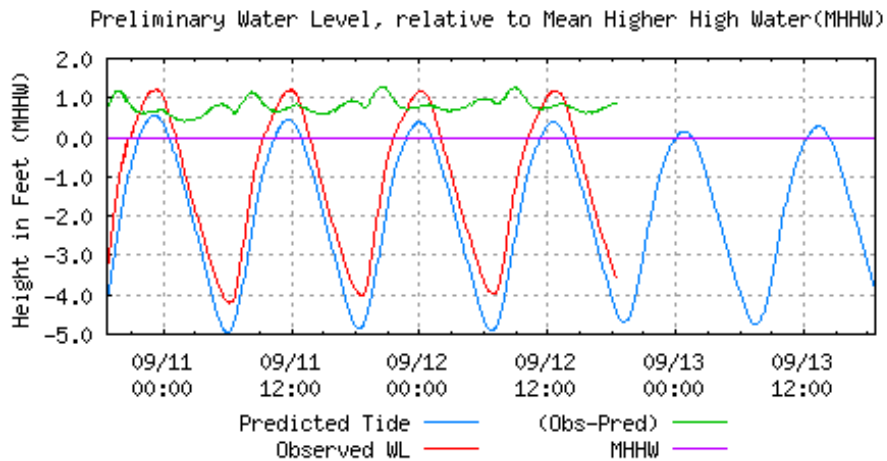
NOAA/NOS/CO-OPS 8658163 Wrightsville Beach, NC



Last Observed Sample: 09/12/2018 18:30 (EDT)

Barometric Pressure: 1016.7 mb

NOAA/NOS/CO-OPS 8658120 Wilmington, NC



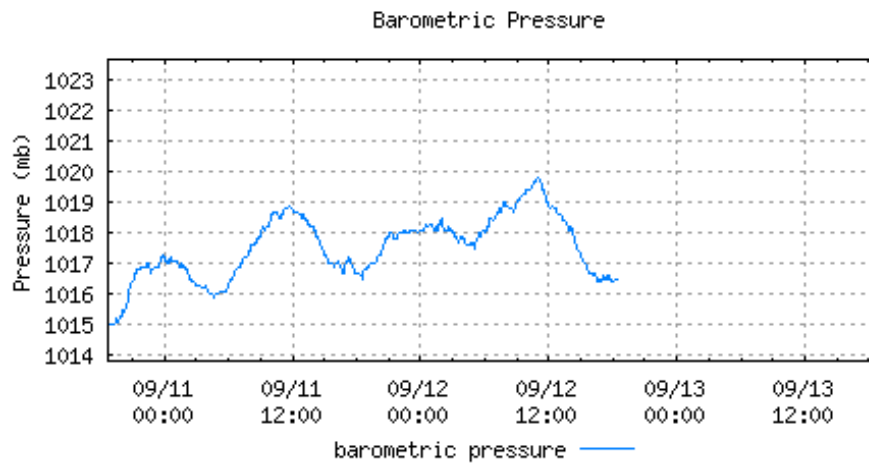
Last Observed Sample: 09/12/2018 18:30 (EDT). Data relative to MHHW

Observed: -3.61 ft. Predicted: -4.47 ft. Residual: 0.86 ft.

Historical Maximum Water Level: Oct 8 2016, 3.48 ft.

Next High Tide: 09/13/2018 00:48 (EDT), 0.16 ft.

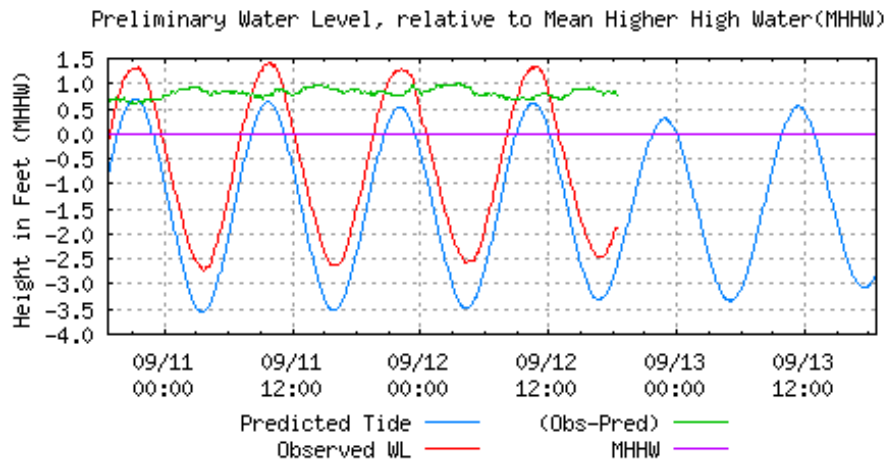
NOAA/NOS/CO-OPS 8658120 Wilmington, NC



Last Observed Sample: 09/12/2018 18:30 (EDT)

Barometric Pressure: 1016.4 mb

NOAA/NOS/CO-OPS 8656483 Beaufort, Duke Marine Lab, NC



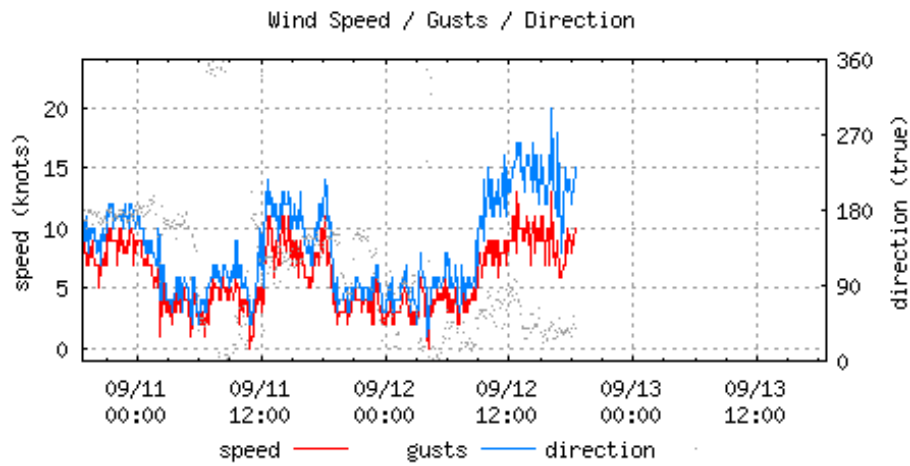
Last Observed Sample: 09/12/2018 18:30 (EDT). Data relative to MHHW

Observed: -1.80 ft. Predicted: -2.58 ft. Residual: 0.78 ft.

Historical Maximum Water Level: Sep 19 1955, 3.39 ft.

Next High Tide: 09/12/2018 22:53 (EDT), 0.30 ft.

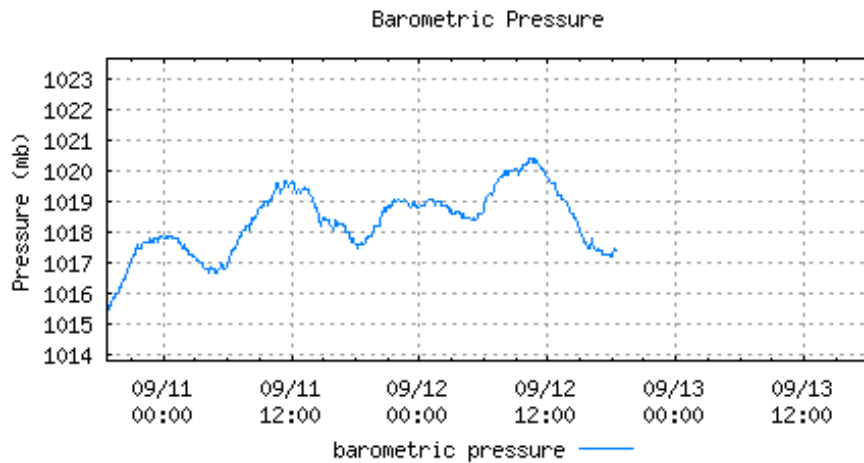
NOAA/NOS/CO-OPS 8656483 Beaufort, Duke Marine Lab, NC



Last Observed Sample: 09/12/2018 18:30 (EDT)

Wind Speed: 9 knots Gusts: 14 knots Direction: 40° T

NOAA/NOS/CO-OPS 8656483 Beaufort, Duke Marine Lab, NC

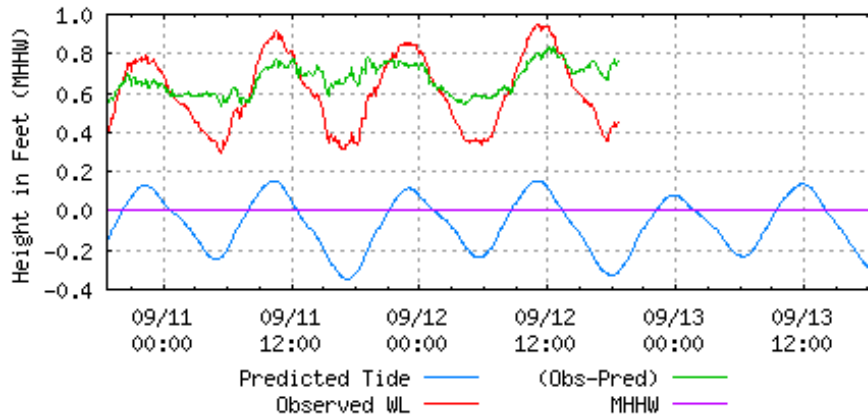


Last Observed Sample: 09/12/2018 18:30 (EDT)

Barometric Pressure: 1017.5 mb

NOAA/NOS/CO-OPS 8654467 USCG Station Hatteras, NC

Preliminary Water Level, relative to Mean Higher High Water(MHHW)



Last Observed Sample: 09/12/2018 18:42 (EDT). Data relative to MHHW

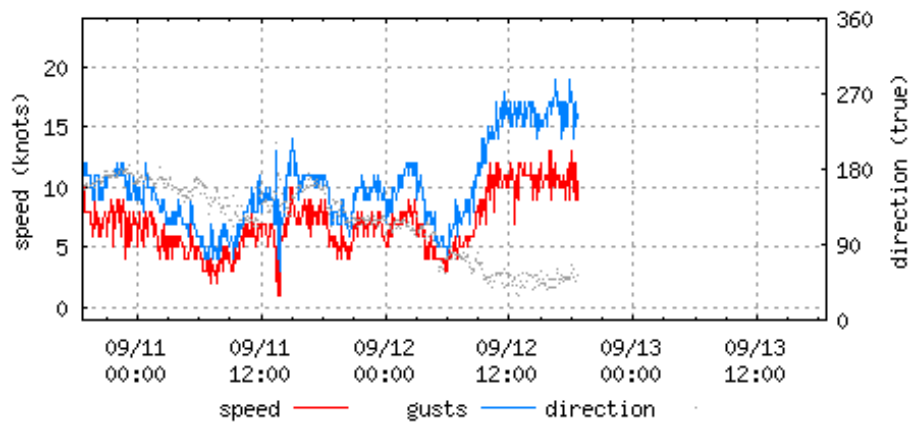
Observed: 0.46 ft. Predicted: -0.30 ft. Residual: 0.76 ft.

Historical Maximum Water Level: Oct 9 2016, 5.76 ft.

Next High Tide: 09/12/2018 23:49 (EDT), 0.08 ft.

NOAA/NOS/CO-OPS 8654467 USCG Station Hatteras, NC

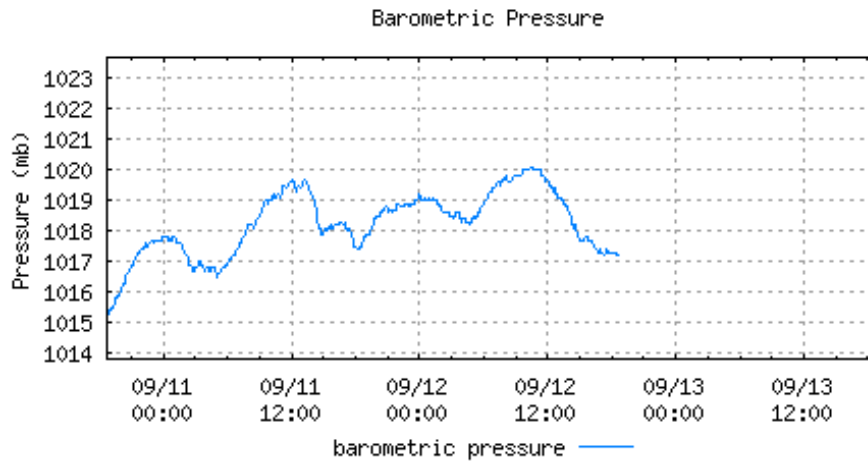
Wind Speed / Gusts / Direction



Last Observed Sample: 09/12/2018 18:42 (EDT)

Wind Speed: 11 knots Gusts: 16 knots Direction: 48° T

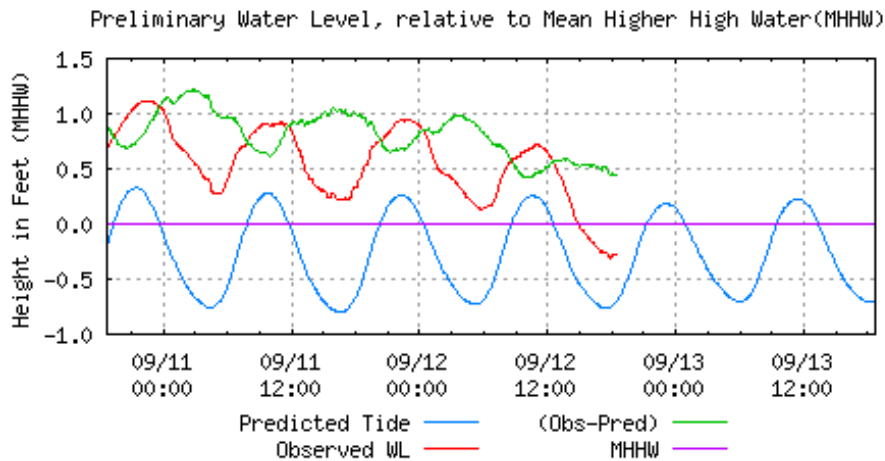
NOAA/NOS/CO-OPS 8654467 USCG Station Hatteras, NC



Last Observed Sample: 09/12/2018 18:42 (EDT)

Barometric Pressure: 1017.1 mb

NOAA/NOS/CO-OPS 8652587 Oregon Inlet Marina, NC



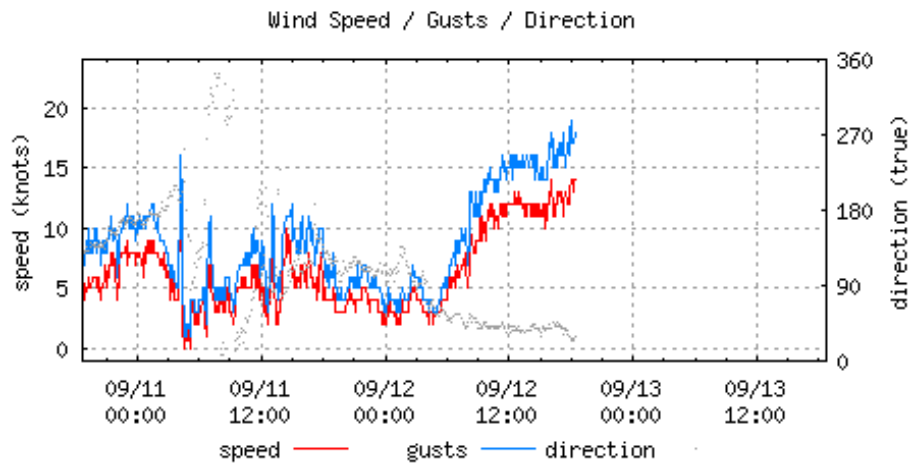
Last Observed Sample: 09/12/2018 18:24 (EDT). Data relative to MHHW

Observed: -0.27 ft. Predicted: -0.71 ft. Residual: 0.44 ft.

Historical Maximum Water Level: Aug 28 2011, 6.31 ft.

Next High Tide: 09/12/2018 23:08 (EDT), 0.18 ft.

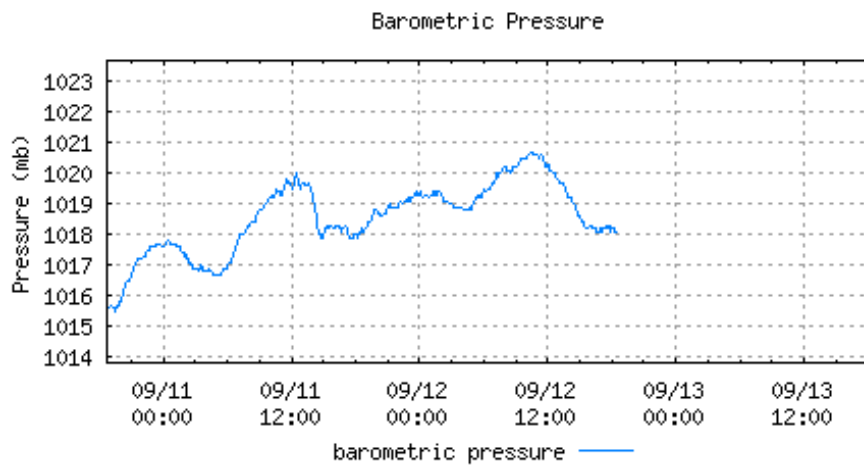
NOAA/NOS/CO-OPS 8652587 Oregon Inlet Marina, NC



Last Observed Sample: 09/12/2018 18:24 (EDT)

Wind Speed: 14 knots Gusts: 18 knots Direction: 29° T

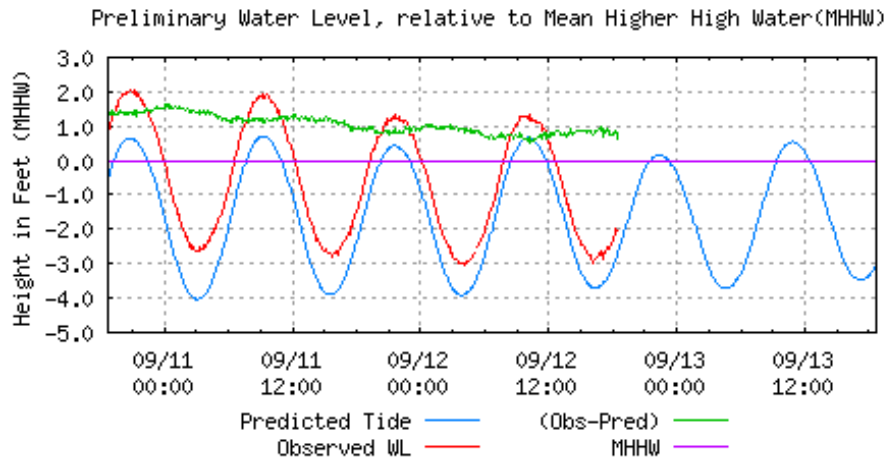
NOAA/NOS/CO-OPS 8652587 Oregon Inlet Marina, NC



Last Observed Sample: 09/12/2018 18:24 (EDT)

Barometric Pressure: 1018.1 mb

NOAA/NOS/CO-OPS 8651370 Duck, NC



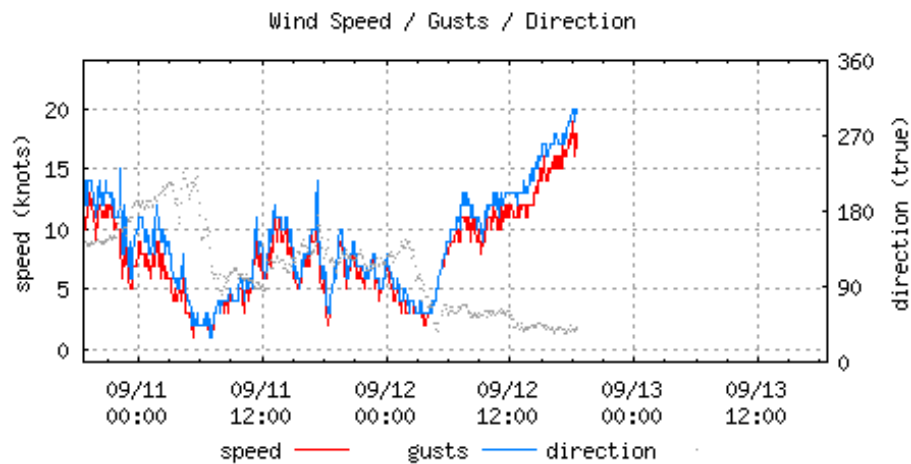
Last Observed Sample: 09/12/2018 18:30 (EDT). Data relative to MHHW

Observed: -2.04 ft. Predicted: -2.69 ft. Residual: 0.65 ft.

Historical Maximum Water Level: Sep 18 2003, 4.13 ft.

Next High Tide: 09/12/2018 22:21 (EDT), 0.17 ft.

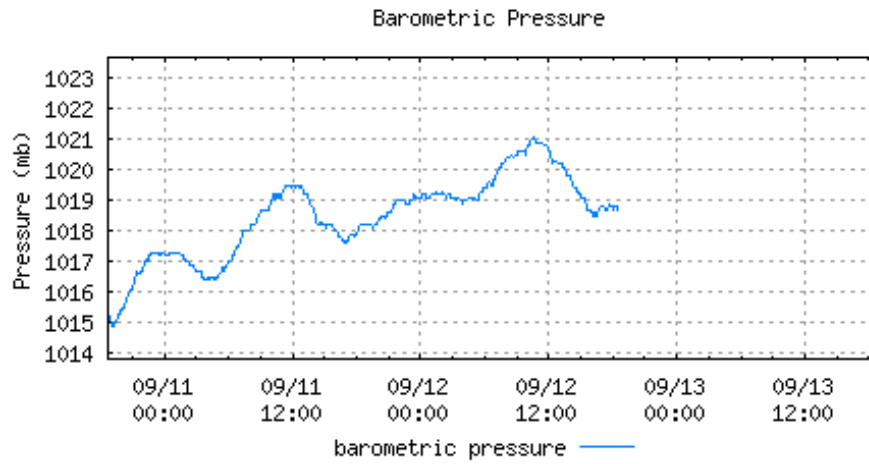
NOAA/NOS/CO-OPS 8651370 Duck, NC



Last Observed Sample: 09/12/2018 18:30 (EDT)

Wind Speed: 18 knots Gusts: 20 knots Direction: 39° T

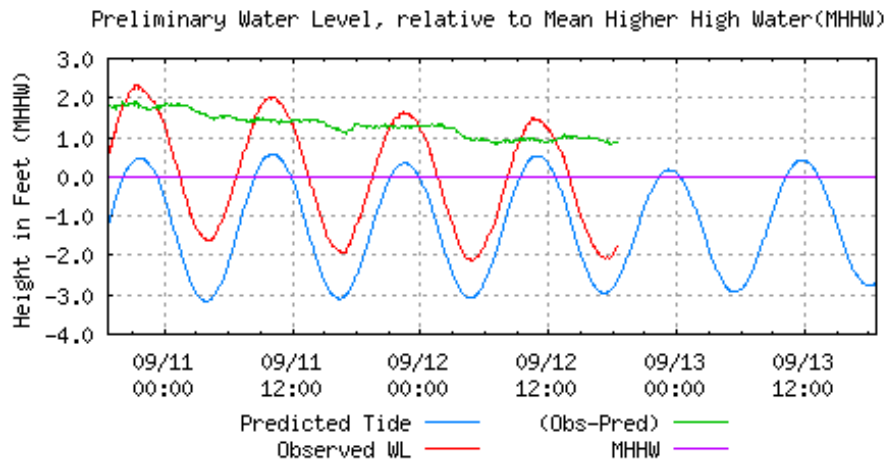
NOAA/NOS/CO-OPS 8651370 Duck, NC



Last Observed Sample: 09/12/2018 18:30 (EDT)

Barometric Pressure: 1018.7 mb

NOAA/NOS/CO-OPS 8638901 CBBT, Chesapeake Channel, VA



Last Observed Sample: 09/12/2018 18:24 (EDT). Data relative to MHHW

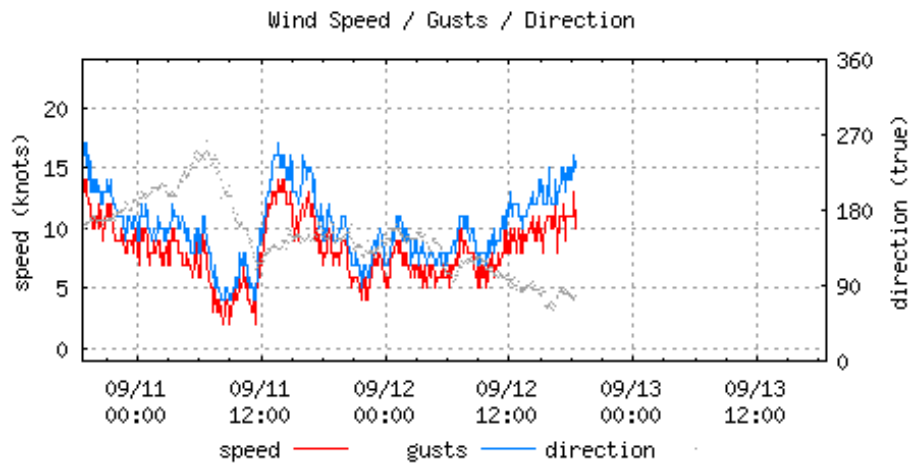
Observed: -1.78 ft. Predicted: -2.66 ft. Residual: 0.88 ft.

Historical Maximum Water Level: n/a

Next High Tide: 09/12/2018 23:17 (EDT), 0.17 ft.



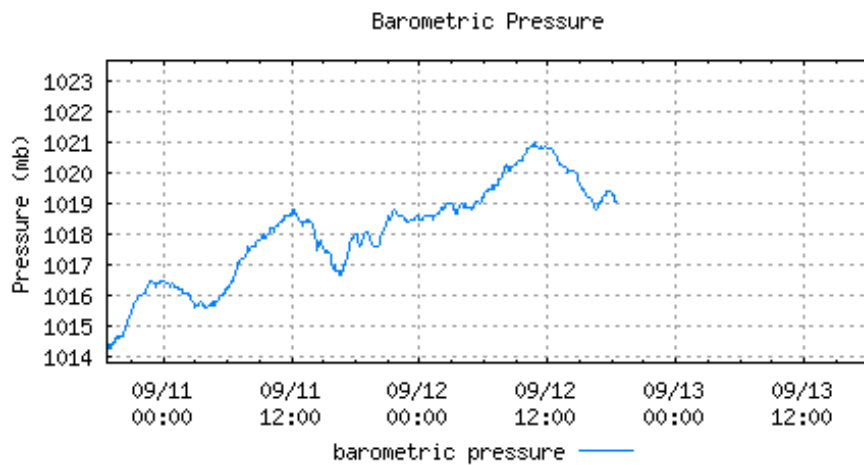
NOAA/NOS/CO-OPS 8638901 CBBT, Chesapeake Channel, VA



Last Observed Sample: 09/12/2018 18:24 (EDT)

Wind Speed: 10 knots Gusts: 15 knots Direction: 78° T

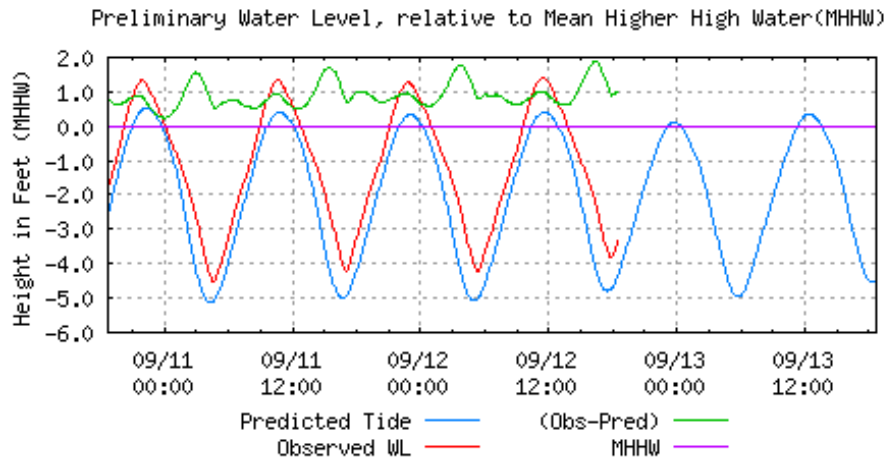
NOAA/NOS/CO-OPS 8638901 CBBT, Chesapeake Channel, VA



Last Observed Sample: 09/12/2018 18:24 (EDT)

Barometric Pressure: 1019.1 mb

NOAA/NOS/CO-OPS 8662245 Oyster Landing (N Inlet Estuary), SC



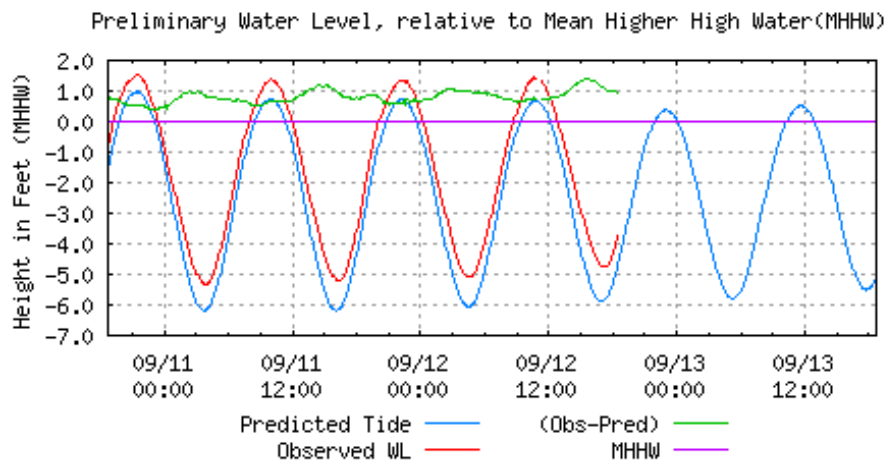
Last Observed Sample: 09/12/2018 18:30 (EDT). Data relative to MHHW

Observed: -3.33 ft. Predicted: -4.34 ft. Residual: 1.01 ft.

Historical Maximum Water Level: Oct 8 2016, 4.64 ft.

Next High Tide: 09/12/2018 23:45 (EDT), 0.11 ft.

NOAA/NOS/CO-OPS 8665530 Charleston, Cooper River Entrance, SC



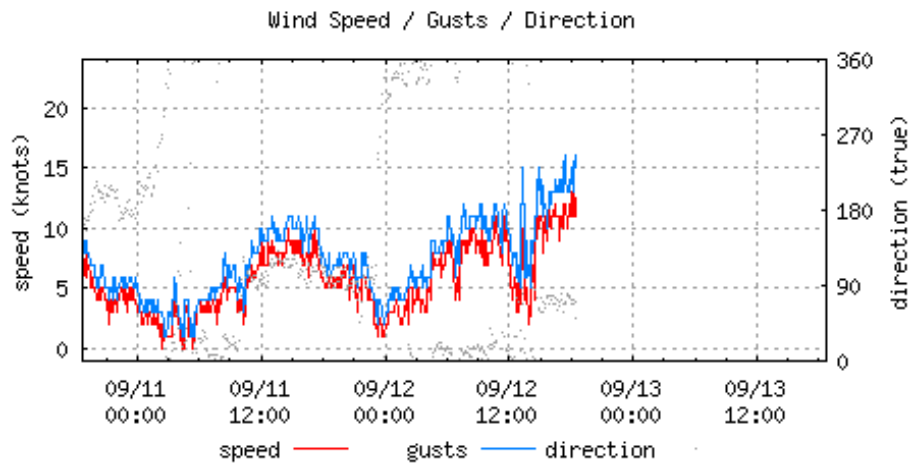
Last Observed Sample: 09/12/2018 18:30 (EDT). Data relative to MHHW

Observed: -3.76 ft. Predicted: -4.69 ft. Residual: 0.93 ft.

Historical Maximum Water Level: Sep 21 1989, 6.76 ft.

Next High Tide: 09/12/2018 23:00 (EDT), 0.38 ft.

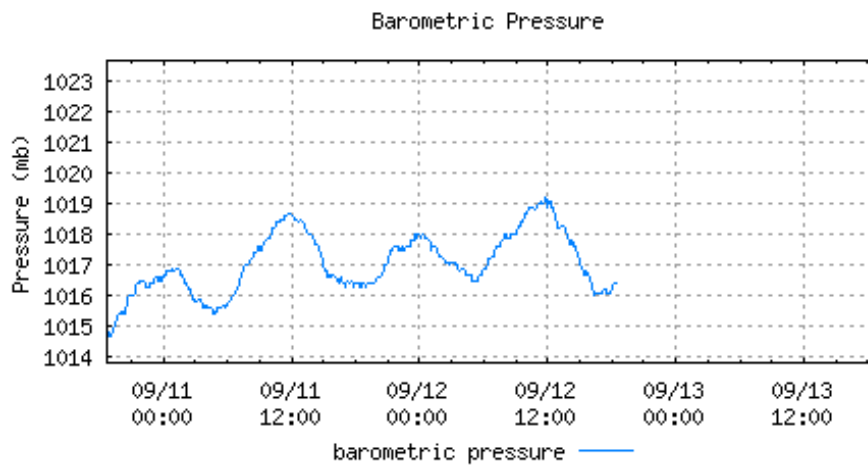
NOAA/NOS/CO-OPS 8665530 Charleston, Cooper River Entrance, SC



Last Observed Sample: 09/12/2018 18:30 (EDT)

Wind Speed: 11 knots Gusts: 15 knots Direction: 50° T

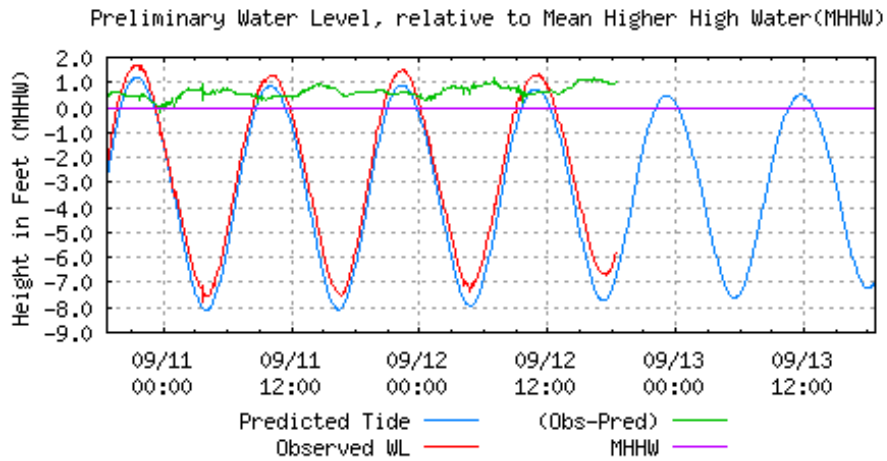
NOAA/NOS/CO-OPS 8665530 Charleston, Cooper River Entrance, SC



Last Observed Sample: 09/12/2018 18:30 (EDT)

Barometric Pressure: 1016.4 mb

NOAA/NOS/CO-OPS 8670870 Fort Pulaski, GA



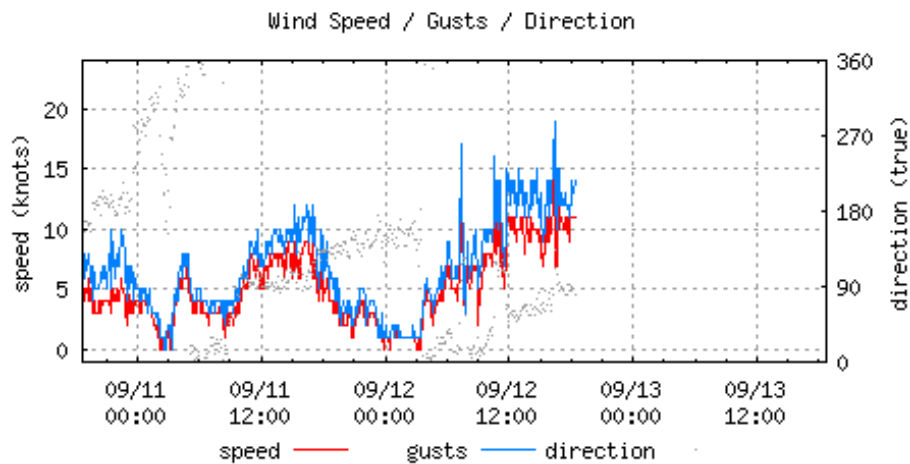
Last Observed Sample: 09/12/2018 18:30 (EDT). Data relative to MHHW

Observed: -5.61 ft. Predicted: -6.65 ft. Residual: 1.04 ft.

Historical Maximum Water Level: Oct 8 2016, 4.94 ft.

Next High Tide: 09/12/2018 23:08 (EDT), 0.48 ft.

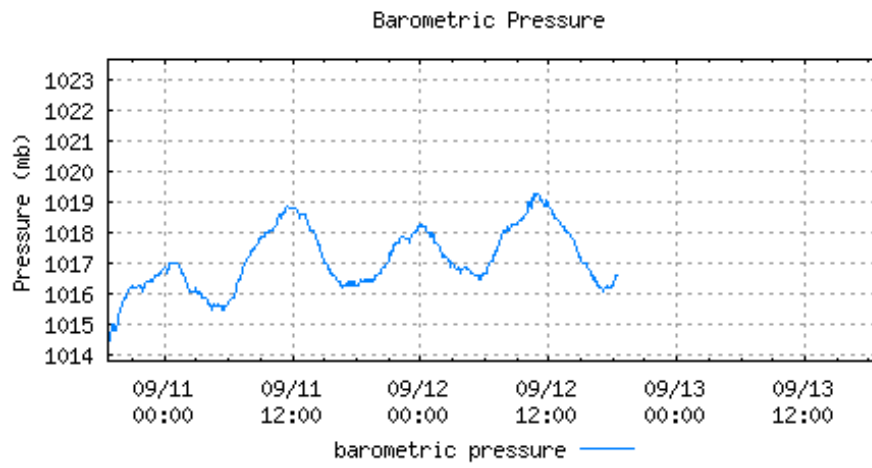
NOAA/NOS/CO-OPS 8670870 Fort Pulaski, GA



Last Observed Sample: 09/12/2018 18:30 (EDT)

Wind Speed: 12 knots Gusts: 15 knots Direction: 86° T

NOAA/NOS/CO-OPS 8670870 Fort Pulaski, GA



Last Observed Sample: 09/12/2018 18:30 (EDT)

Barometric Pressure: 1016.6 mb

Latest Water Level Observations on MHHW

Station ID	Station Name	Date/Time	Observed Water Level	Predicted Tide	Residual Water Level	24 Hour Maximum Storm Tide
8661070	Springmaid Pier, SC	09/12/2018 18:30 (EDT)	-3.09 ft	-4.02 ft	0.93 ft	1.53 ft
8658163	Wrightsville Beach, NC	09/12/2018 18:30 (EDT)	-1.99 ft	-2.90 ft	0.91 ft	1.74 ft
8658120	Wilmington, NC	09/12/2018 18:30 (EDT)	-3.61 ft	-4.47 ft	0.86 ft	1.19 ft
8656483	Beaufort, Duke Marine Lab, NC	09/12/2018 18:30 (EDT)	-1.80 ft	-2.58 ft	0.78 ft	1.35 ft
8654467	USCG Station Hatteras, NC	09/12/2018 18:42 (EDT)	0.46 ft	-0.30 ft	0.76 ft	0.95 ft
8652587	Oregon Inlet Marina, NC	09/12/2018 18:24 (EDT)	-0.27 ft	-0.71 ft	0.44 ft	0.95 ft
8651370	Duck, NC	09/12/2018 18:30 (EDT)	-2.04 ft	-2.69 ft	0.65 ft	1.35 ft
8638901	CBBT, Chesapeake Channel, VA	09/12/2018 18:24 (EDT)	-1.78 ft	-2.66 ft	0.88 ft	1.65 ft
8662245	Oyster Landing (N Inlet Estuary), SC	09/12/2018 18:30 (EDT)	-3.33 ft	-4.34 ft	1.01 ft	1.40 ft
8665530	Charleston, Cooper River Entrance, SC	09/12/2018 18:30 (EDT)	-3.76 ft	-4.69 ft	0.93 ft	1.44 ft
8670870	Fort Pulaski, GA	09/12/2018 18:30 (EDT)	-5.61 ft	-6.65 ft	1.04 ft	1.48 ft

Center for Operational Oceanographic Products & Services (CO-OPS) | National Ocean Service (NOS)  
National Oceanic and Atmospheric Administration | U.S. Department of Commerce